

WHAT IS CLAIMED IS:

- 1 A method of recycling wash-water resulting from the treatment of a film provided with a carbon particles based backing layer, said treatment comprising a washing treatment to remove said carbon particles based backing layer, wherein said method comprises the step of passing said wash-water through an ultrafiltration unit equipped with a hydrophilic ultrafiltration membrane whose surface is electrically charged, wherein a permeate is obtained, and wash-water free of at least said carbon particles is obtained in said permeate.
2. The method of Claim 1, comprising the step of recovering wash-water from the permeate and recycling it for said washing treatment.
3. The method of Claim 1, wherein said ultrafiltration membrane has a wet contact angle less than 70° .
4. The method of Claim 3, wherein said ultrafiltration membrane has a wet contact angle between 10° and 60° .
5. The method of Claim 3, wherein said ultrafiltration membrane is made in a hydrophilic material chosen from among the group comprising acrylonitrile, acrylic acid, and cellulose acetate based polymers and copolymers.
6. The method of Claim 1, wherein the ultrafiltration unit is a tangential ultrafiltration unit.
7. The method of Claim 1, wherein said hydrophilic ultrafiltration membrane has a positively charged membrane surface to further remove dyes.
8. The method of Claim 1, wherein said ultrafiltration membrane has a molecular weight cut-off between 40 and 50 kD.

9. The method of Claim 1, comprising further the step of cleaning said ultrafiltration membrane by rinsing using a hydrochloric acid solution.
10. The method of Claim 1, comprising the step of prefiltering the
5 wash-water through a polypropylene based filter.

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